## **PATENT COOPERATION TREATY**

# **PCT**

### INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference FOR FURTHER see Form PCT/ISA/220					
X16230	ACTION		as, where applicable, item 5 below.		
International application No.	International filing date (day/mon	h/year)	(Earliest) Priority Date (day/month/year)		
PCT/US2004/018921	07/06/2004 09/07/2003				
Applicant					
ELI LILLY AND COMPANY	1,000				
This International Search Report has been according to Article 18. A copy is being tra			ority and is transmitted to the applicant		
This International Search Report consists	of a total ofsh	eets.			
X It is also accompanied by	a copy of each prior art document o	ated in this	report.		
	nternational search was carried ou ess otherwise indicated under this i		is of the international application in the		
The international this Authority (Rul		of a transla	ation of the international application furnished to		
b. X With regard to any nucleo	otide and/or amino acid sequence	disclosed i	in the international application, see Box No. I.		
2. Certain claims were four	nd unsearchable (See Box II).				
3. X Unity of invention is lack	king (see Box III).				
4. With regard to the title,					
the text is approved as su	. ,,				
	hed by this Authority to read as folk	ows:			
TGF-BETA1 LIGANDS					
			1/4		
			·		
5. With regard to the abstract,	hmittad by the applicant				
X the text is approved as su	• • • • • • • • • • • • • • • • • • • •	his Authorit	y as it appears in Box No. IV. The applicant		
			th report, submit comments to this Authority.		
6. With regard to the <b>drawings</b> ,					
a. the figure of the drawings to be published with the abstract is Figure No.					
as suggested by t	he applicant.				
	s Authority, because the applicant f	_			
~ ~ `	s Authority, because this figure bett	er characte	rizes the invention.		
b none of the figures is to be	e published with the abstract.		·		

Form PCT/ISA/210 (first sheet) (January 2004)

International application No.

PCT/US2004/018921

Вох	No. I	Nucleotide and/or amino acid sequence(s) (Continuation of item 1.b of the first sheet)
1.	With inver	regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed tion, the international search was carried out on the basis of:
	a.	type of material  X a sequence listing table(s) related to the sequence listing
	b.	format of material  X in written format  X in computer readable form
	c.	time of filing/furnishing  X contained in the international application as filed filed together with the international application in computer readable form furnished subsequently to this Authority for the purpose of search
2.	х	In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
3.	Addit	ional comments:
		·
		•

International application No. PCT/US2004/018921

Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)
This international Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
Claims Nos.:     because they relate to subject matter not required to be searched by this Authority, namely:
Claims Nos.:     because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
Claims Nos.:     because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box III Observations where unity of invention is lacking (Continuation of Item 3 of first sheet)
This International Searching Authority found multiple inventions in this international application, as follows:
see additional sheet
As all required additional search fees were timely paid by the applicant, this international Search Report covers all searchable claims.
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report . covers only those claims for which fees were paid, specifically claims Nos.:
4. No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
1-32 partially
Remark on Protest  The additional search fees were accompanied by the applicant's protest.
No protest accompanied the payment of additional search fees.

#### FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-32 partially

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anti TGF-b1 binding composition "1021" characterized by one or more of the following CDRs:
HC CDR1= Seq ID No: 13,
HC CDR2= Seq ID No: 14,
HC CDR3= Seq ID No: 15,
LC CDR1= Seq ID No: 22,
LC CDR2= Seq ID No: 23,
LC CDR3= Seq ID No: 24,
LC v-region (Seq ID No: 2) comprises Seq ID No: 22,23,24 and
HC v-region (Seq ID No: 4) comprises Seq ID No: 13,14,15
```

2. claims: 1-32 partially

```
anti TGF-b1 binding composition "2471" characterized by one or more of the following CDRs:
HC CDR1= Seq ID No: 16,
HC CDR2= Seq ID No: 17,
HC CDR3= Seq ID No: 18,
LC CDR1= Seq ID No: 25,
LC CDR2= Seq ID No: 26,
LC CDR3= Seq ID No: 27
```

3. claims: 1-32 partially

```
anti TGF-b1 binding composition "3821" characterized by:
HC CDR1= Seq ID No: 19,
HC CDR2= Seq ID No: 20,
HC CDR3= Seq ID No: 21,
LC CDR1= Seq ID No: 28,
LC CDR2= Seq ID No: 29,
LC CDR3= Seq ID No: 30,
LC v-region (Seq ID No: 10) comprises Seq ID No: 28,29,30 and
HC v-region (Seq ID No: 12) comprises Seq ID No: 19,20,21
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International Application No PCT/US2004/018921

# A. CLASSIFICATION OF SUBJECT MATTER IPC 7 C07K16/22

According to International Patent Classification (IPC) or to both national classification and IPC

IPC 7 C07K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, EMBASE, BIOSIS, PAJ, LIFESCIENCES, SCISEARCH, CHEM ABS Data, Sequence Search

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
orredo: )	Chairm of Geographic wall indication, where appropriate, of the relevant passages	nosvan to dam No.
X	WO 00/66631 A (CAMBRIDGE ANTIBODY TECH; TEMPEST PHILIP RONALD (GB); BRADDOCK PETA SA) 9 November 2000 (2000-11-09) page 1 - page 3 table 2 figures 1,4	1-32
	examples 1,3,6	
	-/	
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	·	
X Furt	ther documents are listed in the continuation of box C. X Patent family members are	listed in annex.
° Special ca	ategories of cited documents:	·
*A* docum	ent defining the general state of the art which is not dered to be of particular relevance  "T" later document published after to or priority date and not in conficient of priority date and not in conficient or pr	ict with the application but
	document but published on or after the international	
which	ent which may throw doubts on priority claim(s) or involve an inventive step when its cited to establish the publication date of another "Y" document of particular relevance.	the document is taken alone e; the claimed invention
"O" docum	on or other special reason (as specified)  cannot be considered to involve ment referring to an oral disclosure, use, exhibition or means  cannot be considered to involve document is combined with on ments, such combination being	e or more other such docu-
*P* docum	theatis in the art.  than the priority date claimed ** document member of the same	•
Date of the	actual completion of the international search . Date of mailing of the internation	nal search report
1	9 January 2005 07. 07. 2005	
Name and	mailing address of the ISA Authorized officer	
	European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,	
	Fax: (+31-70) 340-3016 Voigt-Ritzer,	Н '

International Application No PCT/US2004/018921

010	Allera Poolingage Concinence to BE DELEVANE	PC1/U32004/U18921
Category *	ation) DOCUMENTS CONSIDERED TO BE RELEVANT  Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	SHAH M ET AL: "NEUTRALISATION OF TGF-BETA1 AND TGF-BETA2 OR EXOGENOUS ADDITION OF TGF-BETA3 TO CUTANEOUS RAT WOUNDS REDUCES SCARRING" JOURNAL OF CELL SCIENCE, CAMBRIDGE UNIVERSITY PRESS, LONDON, GB, vol. 108, no. PART 3, 1 March 1995 (1995-03-01), pages 985-1002, XP000609005 ISSN: 0021-9533 page 997, column 1, paragraph 2 table 1	1-13,30
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X	WO 97/13844 A (CAMBRIDGE ANTIBODY TECH; TEMPEST PHILIP RONALD (GB); THOMSON JULIA EL) 17 April 1997 (1997-04-17) page 12, line 12 - line 27 figures 1bii,1ci examples 1,3.4,9 page 62, line 25 - page 63, line 14 page 67, line 12 - page 68, line 5 page 100, line 4 - page 101, line 15	1-32
X	FLANDERS K C ET AL: "ANTIBODIES TO PEPTIDE DETERMINANTS IN TRANSFORMING GROWTH FACTOR BETA AND THEIR APPLICATIONS" BIOCHEMISTRY, AMERICAN CHEMICAL SOCIETY. EASTON, PA, US, vol. 27, 1988, pages 739-746, XP002044723 ISSN: 0006-2960 page 744, column 2, paragraph 2 figure 7	1-13,30

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International Application No
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GROWTH FACT INHIBITORS THYMOCYTE P CELLULAR IM vol. 114, n XP009042444 ISSN: 0008- page 43, pa figures 6,7	OR-BETAS ARE EQUIPOTENT GROWTH OF INTERLEUKIN-1-INDUCED ROLIFERATION" MUNOLOGY, o. 1, 1988, pages 41-54, 8749 ragraph 3	1-13,30
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information on patent family members

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